

Please amend the claims as follows.

1. (Currently amended) A radio frequency radiation suppressor for a magnetron, comprising
 - a) an inner sleeve member made of an electrical insulating polymer material having a high dielectric strength, and
 - b) an outer shell assembled to said inner sleeve member, said outer shell member being ~~molded~~ made from a material that absorbs radio-frequency radiation and that has a dielectric strength that is substantially lower than said inner sleeve.
2. (Cancelled)
3. (Previously presented) The radio frequency radiation suppressor of Claim 1 wherein the inner sleeve member comprises a recessed portion for receiving a metallic connector, said recessed portion being formed and dimensioned such that when the metallic connector is positioned in said recessed portion, the metallic connector it does not contact the outer shell.
4. (Previously presented) The radio frequency radiation suppressor of Claim 3 wherein the electrical insulating polymer is polytetrafluoroethylene polymer.
5. (Original) The radio frequency radiation suppressor of Claim 1 wherein the radio-frequency radiation absorbing material is a composite material comprising a plurality of metal particles suspended in an resinous binder.
6. (Previously presented) The radio frequency radiation suppressor of Claim 3 wherein the inner sleeve comprises a tab member for holding the metallic connector in place.

7. (Original) The radio frequency radiation suppressor of Claim 6 wherein the inner sleeve comprises a second tab member spaced from said tab member.

8. (Original) The radio frequency radiation suppressor of Claim 7 wherein the inner sleeve further comprises a third tab member spaced from said tab member and said second tab member.

9. (Cancelled)

10. (Currently amended) The radio frequency radiation suppressor of Claim 1 further comprising an outer sleeve assembled to the exterior of the outer shell, said outer sleeve being formed of said electrical insulating ~~polymer~~ material having the high dielectric strength.

11. (Withdrawn)

12. (Withdrawn)

13. (Withdrawn)

14. (Withdrawn)

15. (Withdrawn)

16. (Currently amended) A radio frequency radiation suppressor for a magnetron, comprising

a) an inner sleeve member ~~made~~ consisting essentially of an electrical insulating polymer material; and

b) an outer shell coaxially assembled to said inner sleeve member, said outer shell member being made ~~of~~ from a material that absorbs radio-frequency radiation, said radio-frequency absorbing material consisting essentially of a resin and a plurality of metal particles suspended therein; and

~~— c) —~~ a metallic connector attached to the inner sleeve member for contacting the magnetron.

17. (Currently amended) The radio frequency radiation suppressor of Claim 16 comprising a metallic connector attached to the inner sleeve member for contacting the magnetron, wherein said inner sleeve has a recess for receiving said metallic connector and is shaped such that said metallic connector does not contact said outer shell.

18. (Original) The radio frequency radiation suppressor of Claim 17 wherein the electrical insulating polymer material is polytetrafluoroethylene.

19. (Cancelled)

20. (Currently amended) The radio frequency radiation suppressor of Claim 16 further comprising an outer sleeve assembled to the exterior of the outer shell, said outer sleeve ~~being~~ formed consisting essentially of the electrical insulating polymer material.

21. (Previously presented) The radio frequency radiation suppressor of Claim 1 wherein the outer shell is substantially coaxial with the inner sleeve member.

22. (Cancelled)

23. (New) A radio frequency radiation suppressor for a magnetron, comprising
- a) an inner sleeve member consisting essentially of an electrical insulating polymer material; and
 - b) an outer shell assembled to said inner sleeve member, said outer shell member being made of a material that absorbs radio-frequency radiation, wherein the radio-frequency absorbing material is a composite material comprising a plurality of metal particles suspended in a resinous binder.
24. (New) The radio frequency radiation suppressor of Claim 23 wherein the inner sleeve member comprises a recessed portion for receiving a metallic connector, said recessed portion being formed and dimensioned such that when the metallic connector is positioned in said recessed portion, the metallic connector does not contact the outer shell.
25. (New) The radio frequency radiation suppressor of Claim 24 wherein the electrical insulating polymer is polytetrafluoroethylene polymer.
26. (New) The radio frequency radiation suppressor of Claim 24 wherein the inner sleeve comprises a tab member for holding the metallic connector in place.
27. (New) The radio frequency radiation suppressor of Claim 26 wherein the inner sleeve comprises a second tab member spaced from said tab member.
28. (New) The radio frequency radiation suppressor of Claim 27 wherein the inner sleeve further comprises a third tab member spaced from said tab member and said second tab member.
29. (New) The radio frequency radiation suppressor of Claim 23 further comprising an outer

sleeve assembled to the exterior of the outer shell, said outer sleeve consisting essentially of said electrical insulating polymer material.

30. (New) A radio frequency radiation suppressor adapted for attachment to the cathode terminal of a magnetron, comprising:

a) an inner sleeve member made of an electrical insulating polymer material having a dielectric strength that is sufficient to withstand an electric field transient in the vicinity of the magnetron cathode during normal operation of a magnetron, and

b) an outer shell assembled to said inner sleeve member, said outer shell member being made from a material that absorbs radio-frequency radiation and that has a dielectric strength that is less than sufficient to withstand said electric field transient.

31. (New) The radio frequency radiation suppressor of Claim 30 wherein the inner sleeve member comprises a recessed portion for receiving a metallic connector, said recessed portion being formed and dimensioned such that when the metallic connector is positioned in said recessed portion, the metallic connector it does not contact the outer shell.

32. (New) The radio frequency radiation suppressor of Claim 31 wherein the electrical insulating polymer is polytetrafluoroethylene polymer.

33. (New) The radio frequency radiation suppressor of Claim 31 wherein the inner sleeve comprises a tab member for holding the metallic connector in place.

34. (New) The radio frequency radiation suppressor of Claim 33 wherein the inner sleeve comprises a second tab member spaced from said tab member.

35. (New) The radio frequency radiation suppressor of Claim 34 wherein the inner sleeve further comprises a third tab member spaced from said tab member and said second tab member.

36. (New) The radio frequency radiation suppressor of Claim 30 further comprising an outer sleeve assembled to the exterior of the outer shell, said outer sleeve being formed of said electrical insulating polymer material.

37. (New) The radio frequency radiation suppressor of Claim 30 wherein the radio-frequency radiation absorbing material is a composite material comprising a plurality of metal particles suspended in an resinous binder.